HISTORIC PROPERTY INVENTORY FORM

State of Washington, Department of Community Developme
Office of Archaeology and Historic Preservation
111 21st Avenue Southwest, Post Office Box 48343
Olympia, Washington 98504-8343 (206)753-4011

INDENTIFICATION SECTION

Field Site No. 183-N **OAHP No.** **Date Recorded** 12-Feb-95
Site Name Historic Water Filter Plant
Common
Field Recorder Philip M. Bogen, Evaluator: Darby Stapp
Owner's Name U.S. Department of Energy, Richland Operations Office
Address P.O. Box 550
City/State/Zip Code Richland, WA 99352

LOCATION SECTION

Address 100-N Reactor Area, Building 183-N
City/Town/County/Zip Code Richland, WA/Benton County/99352
Twp. 14N **Range** 26E **Section** 28 **1/4 Section** NE **1/4 1/4 Sec** SW
Tax No./Parcel No. **Acreage**
Quadrangle or map name Coyote Rapids 7.5 min. series
UTM References Zone 11 **Easting** 303974 **Northing** 5172485
Plat/Block/Lot
Supplemental Map(s) 100-N Area Buildings

Status

- [X] Survey/Inventory
- [ ] National Register
- [ ] State Register
- [ ] Determined Eligible
- [ ] Determined Not Eligible
- [ ] Other (HABS, HAER, NHL)
- [ ] Local Designation

Photography

Photography Neg. No. 94011337-7cn
(Roll No. & Frame No.)
View of South and East Facades
Date Jan. 1994

Classification [ ] District [ ] Site [ ] Building [X] Structure [ ] Object
Distric Status [X] NR [ ] SR [ ] LR [ ] INV
Contributing [X] **Non-Contributing** [ ]
District/Thematic Nomination Nai Hanford Site Manhattan Project and Cold War Era Historic District

Description Section

Materials & Features/Structural Types

Building Type Industrial
Plan Rectangular
Structural System Concrete Block
No. of Stories 1

Roof Type

- [ ] Gable
- [ ] Hip
- [X] Flat
- [ ] Pyramidal
- [ ] Monitor
- [ ] Other (specify)
- [ ] Gambrel
- [ ] Shed

Cladding (exterior Wall Surfaces

- [ ] Log
- [ ] Horizontal Wood Siding
  - Rustic/Drop [ ]
  - Clapboard [ ]
- [ ] Wood Shingle
- [ ] Board and Batten
- [ ] Vertical Board
- [ ] Asbestos/Asphalt
- [ ] Brick
- [ ] Stone
- [ ] Stucco
- [ ] Terra Cotta
- [X] Concrete/Concrete Block
- [ ] Vinyl/Aluminum Siding
- [ ] Metal (specify)
- [ ] Other (specify)

Roof Material

- [ ] Wood Shingle
- [ ] Wood Shake
- [ ] Composition
- [ ] Slate
- [ ] Tar/Built-up
- [ ] Tile
- [ ] Metal (specify
- [X] Other (specify Concrete
- [ ] Not visible

Foundation

- [ ] Log
- [ ] Post & Pier
- [ ] Stone
- [ ] Brick
- [ ] Not visible
- Concrete
- Block
- [X] Poured
- [ ] Other (specify)

Integrity (Include detailed description in **Description of Physical Appearance**)

	Intact	Slight	Moderate	Extensive
Changes to plan	X			
Changes to windows				
Changes to original cladding	X			
Changes to interior	X			
Other (specify)				

High Styles/Forms (Check one or more of the following)

- [ ] Greek Revival
- [ ] Gothic Revival
- [ ] Italianate
- [ ] Second Empire
- [ ] Romanesque Revival
- [ ] Stick Style
- [ ] Queen Anne
- [ ] Shingle Style
- [ ] Colonial Revival
- [ ] Beaux Arts/Neoclassical
- [ ] Chicago/Commercial Style
- [ ] American Foursquare
- [ ] Mission Revival
- [ ] Spanish Colonial Revival/Mediterranean
- [ ] Tudor Revival
- [ ] Craftsman/Arts & Crafts
- [ ] Bungalow
- [ ] Prairie Style
- [ ] Art Deco/Art Moderne
- [ ] Rustic Style
- [ ] International Style
- [ ] Northwest Style
- [ ] Commercial Vernacular
- [ ] Residential Vernacular (see below)
- [X] Other (specify) Industrial Vernacular

Vernacular House Types

- [ ] Gable Front
- [ ] Gable Front and Wing
- [ ] Side Gable
- [ ] Cross Gable
- [ ] Pyramidal/Hipped
- [ ] Other (specif

NARRATIVE SECTION

Study Unit Themes (check one or more of the following)

[ ] Agriculture	[ ] Conservation	[ ] Politics/Government/Law
[ ] Architecture/Landscape Architecture	[ ] Education	[ ] Religion
[ ] Arts	[ ] Entertainment/Recreation	[ ] Science & Engineering
[ ] Commerce	[ ] Ethnic Heritage (specify)	[ ] Social Movements/Organizations
[ ] Communications	[ ] Health/Medicine	[ ] Transportation
[ ] Community Planning/Development	[ ] Manufacturing/Industry	[X] Other (specify) Manhattan Project & Cold War Era
	[ ] Military	[X] **Study Unit Sub-Theme(s) (specify)** Cold War/Nuclear Fuel Production; Reactor Operations, Water Treatment

Statement of Significance

Date of Construction 1963-1964 Architect/Engineer/Builder General Electric

[X] In the opinion of the surveyor, this property appears to meet the criteria of the National Register of Historic Places.
[X] In the opinion of the surveyor, this property is located in a potential historic district (National and/or local).

The 183-N Water Filter Plant complex supplied the filtered water for the demineralized water system and the potable water system at the 100-N Area. Raw water from the 182-N High Lift Station was pumped to the 183-NA Pumphouse where it was treated with chlorine gas (a biocide) and alum (a coagulant) in a mixing tank. From there, it was piped to a coagulator, where a polyelectrolyte was added as a coagulation aid, and then piped to the sand filters in the 183-N Building where filtration took place. The filtered water was pumped to the 183-NB Clearwell and eventually to the 850,000-gal filtered-water storage tank. This system supplied water for the following uses: horizontal control rod backup cooling, fuel-element storage basin cooling and cleanup, area service water, potable water system, and demineralization plant influent.

This property is not associated with an important person (Criterion B), does not possess any distinctive architectural features or methods of construction (Criterion C), and does not qualify under Criterion D as the principal source of important information. However, the 183-N Building qualifies under Criterion A due to its association with the Cold War production of plutonium at N Reactor, and its contribution to Reactor Operations, specifically the Water System. Therefore, it is the conclusion of the U.S. Department of Energy that the 183-N Building is eligible under Criterion A for inclusion on the National Register of Historic Places as a contributing property within the Hanford Site Manhattan Project and Cold War Era Historic District.

Description of Physical Appearance

The 183-N Building is a rectangular, one-story, concrete block structure with a poured concrete foundation, exterior wall surface, and flat roof. The 183-N Building measures approximately 125 ft by 112 ft (38 m by 43 m); 14,000 ft^2 (1,292 m^2). No significant changes have been made to this structure and it is still in use.

The N Reactor UTM coordinates are as follows: Northeast corner - 303974E, 5172485N; southeast corner - 303974E, 5171639N; southwest corner - 303069E, 5171639N; northwest corner - 303069E, 5172485N.

Major Bibliographic References

Unites States Department of Energy. 1994. *RCRA Facillity Investigation/Corrective Measures Study Work Plan for the 100-NR-2 Operable Unit, Hanford Site, Richland, Washington* . DOE/RL-91-46, Rev. 0.

Rollie Warner, Engineer, Columbia Energy & Environmental Services, Inc.

Bechtel Hanford, Inc. 1994. *"Pre-Existing" Conditions Survey of Hanford Site Facilites to be Managed by Bechtel Hanford, Inc* . BHI-00221, Rev. 00, Phase II.

Architectural Floor Pland Section & Elevations, Drawing No. H-1-31160, 1964.